

USSR/Pharmacology and Toxicology. Muscle Relaxants.

V

Obs Jour: Ref Zhur-Biol., No 19, 1958, 89868.

of 30-40 minutes with preservation of natural respiration; in combination with ether, 1.5-2 ml of a 0.1% solution of I was required. I is 20 times more active than diphenoxylate. II possesses a brief curariform effect by producing prolonged depolarization. For the purpose of curarization, II is administered intravenously in doses of 2.5 ml of a 1% solution. The duration of the effect is 4-5 minutes. For a longer effect, the drip method of administration is used (20 ml of a 1% solution of II in 100 ml of physiological solution of II at a rate of 30-40 drops per min.). II seems to be the most controllable drug, and according to the author, has no contra-indications. In clinical

Card : 2/3

✓ USSR/Pharmacology and Toxicology. Muscle Relaxants.

Abs Jour: Ref Zhur-Biol., No 19, 1958, 89868.

v

doses, the described preparations do not show any  
toxic effect on the human and animal organs. --  
H.B. Vysotskaya.

Card : 3/3

V-24

Dr. GUR'YEV, M.S.  
GRIGOR'YEV, M.S., prof. (Leningrad, ul. Smirnova, d.8, kv.36); UVAROV, B.S.  
(Leningrad, Orenburgskaya ul., d.11, kv.2)

Modern methods of anaesthesia in surgery for lung cancer [with  
summary in English]. Vop.onk. 3 no.4:446-451 '57. (MIRA 10:11)

1. Iz khirurgicheskoy kliniki dlya usovershenstvovaniya vrachey  
(nach. - deystvitel'nyy chlen AMN SSSR prof. P.A.Kupriyanov)  
Voyenno-meditsinskoy ordena Lenina akademii im. S.M.Kirova.  
(PNEUMONECTOMY, in var.dis.  
cancer, anesth. (Rus))  
(ANESTHESIA,  
in pneumonectomy in cancer (Rus))

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681

GRIGOR'YEV, M.S., professor, referent

Minutes of sessions nos 1174-1175 of the Pirogov Surgical Society.  
Abstracted by M.S.Grigor'yev. Vest.khir. 78 no.1:146-151 Ja '57.  
(MLRA 10:3)  
(SURGERY)

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GRIGOR'YEV, M.S.

GRIGOR'YEV, M.S., professor, referee:

Minutes of sessions No.1179-1180 of the Pirogov Surgical Society.  
Vest.khir. 78 no.4:134-138 Ap '57.  
(MIR 10.9)  
(SURGERY)

GRIGOR'YEV, M.S., professor (Leningrad, K-9, ul. Smirnova, d.8, kv.36);  
MISHURA, V.I.

Transventricular pulmonary valvulotomy and infundibulectomy in some  
congenital cardiac defects [with summary in English, p.158]. Vest.  
(MIRA 10:7)  
khir. 78 no.5:35-45 My '57.

1. Is khirurgicheskoy kliniki usovershenstvovaniya vrachey (nach. -  
prof. P.A.Kupriyanov) Voyenno-meditsinskoy ordena Lenina akademii  
im. S.M.Kirova.  
(CARDIOVASCULAR DEFECTS, CONGENITAL, surg.  
infundibulectomy & transventric. pulm. valvulotomy, review)

GRIGOR'YEV, M.S., professor, referent

Minutes of session No.1182 of the Pirogov Surgical Society. Vest.  
khir. 78 no.6:151-154 Je '57.  
(Surgery)

GRIGOR'YEV, M.S.  
GRIGOR'YEV, M.S., professor, referent

Minutes of sessions Nos. 1183-1185 of the Pirogov Surgical Society.  
Vest.khir. 79 no.7:150-157 J1 '57.  
(MIRA 10:10)  
(SURGERY, OPERATIVE)

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681

GRIGOR'YEV, M.S.  
GRIGOR'YEV, M.S., referent, professor

Minutes of sessions Nos. 1186-1188 of the Pirogov Surgical Society.  
(MIRA 10:10)  
Vest.khir. 79 no.8:135-144 Ag '57.  
(SURGERY)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681

GRIGOR'YEV, M.S., referent

Minutes of the Pirogov Surgical Society, meeting No.1190, March 20,  
1957. Vest.khir. 79 no.10:152-154 O '57. (MIRA 10:12)  
(SURGERY)

GRIGOR'YEV, M.S., referent, prof.

Minutes of sessions Nos. 1191-1192 of the Pirogov Surgical Society.  
(MIRA 11:3)  
Vest.khir. 79 no.11:150-156 N'57.  
(SURGERY)

GRIGOR'YEV, M.S., prof., referent

Minutes of session No.1193 of the Pirogov Surgical Society,  
May 8, 1957. Vest.khir. 80 no.1:146-151 Ja '58. (MIRA 11:4)  
(SURGERY)

GRIGOR'YEV, M.S., prof. referent.

Minutes of sessions Nos.1194-1195 of the Pirogov Surgical Society.  
Vest. khir. 80 no.2:146-152 F '58. (MIHA 11:7)  
(SURGERY)

GRIGOR'YEV, M.S., prof., referent

Minutes of session No.1196 of the Pirogov Surgical Society. Vest.  
khir. 80 no.3:155-157 Mr '58.  
(MIRA 11:4)  
(SURGERY)

GRIGOR'YEV, M.S., referent prof., GAMOV, V.S., referent prof.

Minutes of sessions Nos. 12-7-1208 of the Pirogov Surgical Society.  
(MIRA 11:9)  
Vest.khir. 81 no.8:145-150 Ag '58  
(SURGERY)

GRIGOR'YEV, M.S., Leningrad, ul. Smirnova, 8, kv.36; BURMISTROV, M.I.

Defects of the septum atriorum and their closure by Sondergaard's  
method. Grud.khir. 1 no.1:16-24 Ja-F '59. (MIRA 13:6)

1. Iz khirurgicheskoy kliniki dlya usovershenstvovaniya vrachey  
(nach. - prof. P.A. Kupriyanov) Voyenno-meditsinskoy ordena Leni-  
na akademii imeni S.M. Kirova.

(HEART--ABNORMALITIES AND DEFORMITIES) (HEART--SURGERY)

GRIGOR'YEV, M.S., prof. (Leningrad, ul. Smirnova, 8, kv.36); IZBINSKIY, A.L.,  
kand.med.nauk

Tracheostomy in operations on organs of the chest. Vest.khir.  
82 no.4:16-25 Ap '59. (MIRA 12:6)

1. Iz khirurgicheskoy kliniki usovershenstvovaniya vrachey  
(nach. - prof.P.A.Kupriyanov) Voyenno-meditsinskoy ordena  
Lenina akademii im. S.M.Kirova.  
(TRACHEA--SURGERY) (RESPIRATORY ORGANS--DISEASES)

GRIGOR'YEV, M.S., prof.; SHANIN, Yu.N., kand.med.nauk; UVAROV, B.S.

"Brief practical manual on anesthesia" by IU.V. Beringer, A.A. Zykov.  
Reviewed by M.S. Grigor'ev, IU.N. Shanin, B.S. Uvarov. Vest.khir. 83  
no.8:142-144 Ag '59. (MIRA 13:1)  
(ANESTHESIOLOGY) (BERINGER, IU.V.) (ZYKOV, A.A.)

GRIGORYEV, M. S., (Prof.), AKSENOV, B. N., IZBINSKIY, A. P., MESHCHERYAKOV, N. A,  
UVAROV, B. S., and SHANIN, Yu. N., -- Leningrad

"Anesthesia for Intrathoracic Operations on the Esophagus."

Report submitted for the 27th Congress of Surgeons of the USSR, Moscow,  
23-28 May 1960.

ANICHKOV, M.N., dots.; ANTELAVA, N.V., prof.; BISENKOVA, N.P., kand.  
med. nauk; BOGUSH, L.K., prof.; GRIGOR'YEV, M.S., prof.;  
DYSKIN, Ye.A., kand. med. nauk; KEVESH, Ye.L., prof.; KOLESOV, A.P.;  
KOLESOV, V.I., prof.; KUPRIYANOV, P.A., prof.; LINDEKG, B.E.,  
prof.; MAKSIMENKOV, A.N., prof.; OSIPOV, B.K., prof.;  
SAVITSKIY, A.I., prof.; UVAROV, B.S.; UGLOV, F.G., prof.;  
KHOLDIN, S.A., prof.; PETROVSKIY, B.V., prof., otv. red.;  
BAKULEV, A.N., akademik, red.; GULAYAEV, A.V., prof., red.;  
YEGOROV, B.G., prof., red.; PANKRAT'YEV, B.Ye., prof., red.;  
PYTEL', A.Ya., prof., red.; RIKHTER, G.A., prof., red.;  
FILATOV, A.N., prof., red.; CHAKLIN, V.D., prof., red.;  
RYBUSHKIN, I.N., doktor med. nauk, red.; RULEVA, M.S., tekhn.  
red.

[Multivolume manual on surgery] Mnogotomnoe rukovodstvo po  
khirurgii. Moskva, Medgiz. Vol.5. [Chest surgery; thoracic wall,  
pleura, and lungs] Khirurgiia grudi; grudnaya stenka, plerva i  
legkies. 1960. 727 p. (MIRA 15:3)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for  
Antelava, Bogush, Maksimenkov, Savitskiy, Kholdin, Chaklin).
2. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for  
Kupriyanov, Petrovskiy, Yegorov).  
(CHEST--SURGERY)

GRIGOR'YEV, M.S.; AKSENOV, B.N.

Some problems of surgery in cancer of the upper esophagus. Vest.  
khir. 85 no. 8:60-67 Ag '60. (MIRA 14:1)  
(ESOPHAGUS--CANCER)

VINOGRADOV, Vasiliy Mikhaylovich; D'YACHENKO, Petr Konstantinovich;  
GRIGOR'YEV, M.S., red.; KHARASH, G.A., tekhn.red.

[Principles of clinical anesthesiology; general anesthesiology]  
Osnovy klinicheskoi anesteziologii; obshchaia anesteziologija.  
Leningrad, Gos.izd-vo med.lit-ry Medgiz, Leningr.otd-nie, 1961.  
358 p. (MIRA 14:6)

(ANESTHESIOLOGY)

GRIGOR'YEV, M.S. (Leningrad K-9, ul. Smirnova, d.8, kv.36); BURMISTROV, M.I.

Median sternotomy in some operations on the heart and the anterior mediastinum.. Grud. khir. 3 mo.1:33-37 Ja-F '61. (MIRA 16:5)

1. Iz khirurgicheskoy kliniki dlya usovershenstvovaniya vrachey (nachal'nik - prof. P.A.Kupriyanov) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova.  
(MEDIASTINUM—SURGERY) (STERNUM--SURGERY) (HEART—SURGERY)

D'YACHENKO, Petr Konstantinovich; VINOGRADOV, Vasiliy Mikhaylovich;  
GRIGOR'YEV, M.S., red.; KHARASH, G.A., tekhn. red.

[Specialized anesthesiology; selection of the method of  
anesthesia] Chastnaia anestesiologija; vybor metoda obezboli-  
vaniia. Leningrad, Medgiz, 1962. 407 p. (MIRA 15:12)  
(ANESTHESIOLOGY)

DRACHINSKAYA, Yelizaveta Semenovna; BREYDO, Isaak Samuilovich;  
GRIGOR'YEV, M.S., red.; LEBEDEVA, Z.V., tekhn. red.

[Surgery of the thyroid gland] Khirurgiia shchitovidnoi  
glandy. Leningrad, Medgiz, 1963. 233 p. (MIRA 16:4)  
(THYROID GLAND—SURGERY)

GRIGOR'YEV, M.S., prof.

Some problems of surgical treatment of mitral stenosis. Trudy IBM. 31  
no.2:20-22 '63. (MIR: 19:10)

Iz kafedry gosпитальной хирургии Ленинградского педиатрического  
медицинского института.

GRIGOR'YEV, M.S., prof.

Comparative evaluation of transventricular and transatrial  
commissurotomy in mitral stenosis. Vest.khir.90 no.2:76-81  
F'63. (MIRA 16:7)

1. Iz gospital'noy khirurgicheskoy kliniki (zav.- prof. M.S.  
Grigor'yev) Leningradskogo pediatricheskogo meditsinskogo in-  
stituta (rektor - dotsent Ye.P.Semenova) na baze bol'nitsy  
imeni Kuybysheva (glavnnyy vrach - Ye.V.Mamysheva).  
(MITRAL VALVE--SURGERY)

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681

GRIGOR'YEV, M.V. (Kaliningrad)

Marine institute in Norway. Priroda 49 no.8:71 Ag '60.  
(MIRA 13:8)  
(Bergen, Norway--Oceanographic research)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681C

ORMONT, B.F., prof., red.; ALIMARIN, I.P., red.; GRIGOR'YEV, M.V., red.; LASTOVSKIY, R.P., prof., red.; POROZHENKO, B.L., red.; SAZHIN, E.P., red.; TARASOV, G.Ya., red.; YAKOVLEV, Yu.V., red.; EL'KIND, L.M., red.izd-va; ISL'ENT'YEVA, P.O., tekhn.red.

[Quality of materials which are used in semiconductor engineering;  
works of the Permanent Colloquium on Variable Composition Solid  
Phases for the years 1957-1958] Kachestvo materialov dlia polu-  
provodnikovoi tekhniki; trudy kollokviuma za 1957-1958 gg. Pod  
obshchey red. B.F.Ormonta. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry  
po chernoi i tsvetnoi metallurgii. Nos.8-30. 1959. 192 p.  
(MIRA 13:6)

1. Postoyanny mezhinstitutskiy kollokvium po tverdym fazam pere-  
menogo sostava. 2. Fiziko-khimicheskiy institut im. L.Ya.Karpova;  
predsedatel' Mezhinstitutskogo kollokviuma po tverdym fazam peremen-  
ogo sostava (for Ormont). 3. Chleny-korrespondenty AN SSSR (for  
Alimarin, Sazhin). 4. Institut geokhimii i analiticheskoy khimii  
im. V.I.Vernadskogo AN SSSR (GEOKHI AN SSSR) (for Alimarin, Yakovlev).  
5. Nauchno-issledovatel'skiy institut Komiteta radioelektroniki (for  
Grigor'yev, Tarasov). 6. Vsesoyuzny nauchno-issled.institut khi-  
micheskikh reaktivov (IREA) Komiteta khimii (for Lastovskiy). 7. Gosu-  
darstvennyy institut redkikh i malykh metallov (Giredmet) (for Poro-  
zhenko, Sazhin).

(Semiconductors)

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GRIGOR'YEV, M.V. (Kalininograd)

On the shores of the Bay of Naples. Priroda 50 no.1:91-92 Ja '61.  
(MIRA 1:1)  
(Biological research)

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CIA-RDP86-00513R00051681C

obj-obj YEV, M.V. (Baku)

Exhibition of submarine fauna in Vancouver. Priroda 51 no.7:100-  
102 JI '62.  
(Vancouver---Aquariums)

KASSIL', G.N.; GRIGOR'YEV, M.Yu.; CHIBYERIN, G.I.; TAYDUT'EV, I.I.;  
RAYT, M.I.; SHAGAL, D.I.

Humoral mechanisms of reactions caused by the introduction  
of carbocholine into cerebrospinal fluid. Dokl. AN SSSR  
156 no. 4:964-967 Ju '64.  
(Mir 1756)

1. Predstavleno akademikom V.M.Chernigovskim.

GAL'PERIN, Yu.M.; GRIGOR'YEV, M.Yu.

Differentiation of nervous and humoral effects by simultaneous registration of motor activity of an innervated and denervated loop of small intestine. Biul. eksp. biol. i med. 57 no.3:23-25 Mr '64.  
(MIRA 17:11)

1. Patofiziologicheskaya laboratoriya (zav. - kand. med. nauk Yu.M. Gal'perin) Moskovskogo oblastnogo nauchno-issledovatel'skogo instituta imeni Vladimirovskogo (dir. P.M. Leonenko) i laboratoriya neyro-gumoral'noy reguliyatsii (zav. - chlen-korespondent AN SSSR prof. N.I. Grashchenkov) AN SSSR, Moskva. Fred-stavlena deystvitel'nym chlenom AMN SSSR N.I. Grashchenkovym.

GRIGOR'EV, M.YU.

✓ 975. PREPARATION OF KUZNETSK BASIN COALS. Grigor'ev, M.Yu.  
(Ugol (Coal), Feb. 1953, 4-11). The problem of improving coking qualities  
is examined with tabulated data. Bright coals containing mostly vitrinite  
with low specific gravities and good coking qualities are interspersed in *Jul.*  
coals with dull coals containing more fusinite and more ash, with high  
specific gravities and poor coking qualities. The bright coals are more  
easily pulverized. The treatment recommended is crushing, screening and  
sieving to produce screened non-coking coal, fine concentrates suitable for  
coking, middlings (mainly dull coal), and refuse. (L).

GRIGOR'YEV, M.Yu., kandidat khimicheskikh nauk

Urgent tasks of the Kuznets Basin coal industry. Standartizatsiya  
no.6:73-75 N-D '54. (MLRA 8:10)

1. Kuznetskiy Nauchno-issledovatel'skiy ugol'nyy institut  
(Kuznets Basin--Coal mining)

GRIGOR'EV, M. Yu.

V4000. CHEMICAL FATHER OF BETA-TERPENE OF CEDAR. Grigor'ev, M. Yu.  
(Rep. to 2nd Secr. Inst. Chem., Leningrad, 1959; TEPK. Inst. Inst. Vses. (1959)  
(Spec. Lab. polylefin, Acad. Inst. R.R.B.A.), 1956 (6), 91-102).

GRIGOR'YEV, M. Yu

USSR/Chemical Technology - Chemical Products and Their Application. Treatment of Solid Mineral Fuels, I-12

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62521

Author: Grigor'yev, M. Yu., Borodulin, V. A.

Institution: None

Title: On a Change-Over in Technological Schemes of Coal Concentration Mills of Kuznetsk Coal Fields Utilizing the Pneumatic Concentration Method

Original Periodical: Ugol', 1955, No 5, 40-44

Abstract: On the basis of investigations of technological indexes of the operation of USh-3 separators and POM-1 pneumatic jiggling machine it has been ascertained that concentration is most effective in the case of oversize classes of coal. Efficacy of concentration of fine classes decreases sharply which results in a lowering of the over-all concentration effect. The authors propose to subject the concentrate of size 13-0 and 6-0 mm obtained from USh-3 separator to a second concentration in POM-1, and to include in the technological scheme

Card 1/2

USSR/Chemical Technology - Chemical Products and Their Application. Treatment of Solid Mineral Fuels, I-12

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62521

Abstract: of concentration of coal of ready and medium concentrability characteristics a dust flotation process.

Card 2/2

GRIGOR'YEV, M. Yu.

USSR/Chemical Technology - Chemical Products and Their Application. Treatment of Solid Mineral Fuels, I-12

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62516

Author: Grigor'yev, M. Yu., Podbel'skiy, G. N.

Institution: None

Title: Industrial-Genetic Classification of Coal of the Kuznetsk Deposits

Original  
Periodical: Izv. AN SSSR, otd. tekhn. n., 1956, No 2, 120-131

Abstract: Classification of coal must include parameters that characterize the degree of metamorphism (yield of volatiles) and genesis (contents of vitrified and heliphysized components) while for industrial processing those relating to the capacity of the coal to yield a hard clinkering residue, namely coke. According to first named index coal is subdivided in 10 classes which differ by 3-5% in yields of volatiles on the basis of the combustible body. Each class comprises 10 groups differentiated in accordance with clinkering properties rated by magnitude of plastic layer expressed in mm, with differences of

Card 1/2

USSR/Chemical Technology - Chemical Products and Their Application. Treatment of Solid Mineral Fuels, I-12

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62516

Abstract: 2-3 mm between consecutive groups. In addition all varieties of coal are divided in 5 subgroups according to petrographic types that characterize the total content of vitrified components expressed in percent. According to this classification each type of coal is designated by a 3 digit index in which the first integer denotes the class, the second the group, and the third the subgroup. This classification includes humic coal (lignite, coal and anthracite). Oxidized coal forms a special group. Coal varieties from other fields can be readily fitted into this classification and thus a single industrial and genetic classification can be evolved which covers all coal of USSR.

Card 2/2

GRIGOR'YEV, M.Yu., kandidat khimicheskikh nauk; PODBEL'SKIY, G.N.,  
kandidat tekhnicheskikh nauk.

Preparation characteristics of Kuznetsk Basin coals with reference  
to their origin. Koks i khim. no.3:8-12 '56. (MLRA 9:8)

1. Kuznetskiy nauchno-issledovatel'skiy ugol'nyy institut.  
(Kuznetsk Basin--Coal)

GRIGOR'YEV, M. Yu.

2025. STANDARDIZATION OF METHOD OF DETERMINATION OF OXIDATION OF COALS.  
Grigor'ev, M.Yu. (Standartizatsiya (Standardization, Moscow), 1956, (3), 35-40; abstr. in Ref. Zha. Khim. (Ref. J. Chem., Moscow), 1957, (12), 42105). Existing methods are reviewed. Attention is directed mainly to the new method of the Institute of Mining, Academy of Sciences U.S.S.R., based on determination of the ignition temperature of the coal when mixed with benzidine. Experiments on Kuzbass coals showed that the ignition temperature reflects the sum of the changes in the organic matter and the general course of oxidation. A number of corrections are required. With gassy and fat steam coals it is necessary to add 10% of dry sand, to prevent the increased coking power of the coal from affecting the result. High moisture coals should be dried at 75°C for 20-25 min. The method is recommended as standard for determining the limits of the oxidation zone in mines, and for testing coals loaded at mines and those in stores.

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The Chemical Nature of Metamorphism in Coal (Cont.)

The polycondensates are multifunctional, reactive, intramolecular, unsaturable structures which undergo transition reactions favoring the formation of higher polycondensates consisting of molecules combining to form new components. The presence of these structures determines the well-defined components of the coal.

On the other hand, branching and debranching of the organic mass of environment produce multifunctional, reactive, intramolecular, unsaturable structures which undergo transition reactions favoring the formation of higher polycondensates consisting of molecules combining to form new components. The presence of these structures determines the well-defined components of the coal.

Thus, the chemical nature of metamorphism in coal is determined by the presence of both types of structures, which are formed by the reaction of the organic mass of environment with the polycondensates.

15-57-5-657  
and may react with the  
structural elements. The strong  
metamorphism may occur in creases  
in the destruction leads. From peat to  
this destruction predominantly organic mass of for-  
estable, predominationately aromatic systems of the  
succinic structures in the original, but the vitrified  
or aromatic structures by hydrolysis a thick water cover been  
built. When there was the original, were washed carbonhydrates and  
products by polycondensates converted to plant material and  
the original, but the acidic acids and  
components, but the principal mass lost

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CIA-

15-57-5-6647

The Chemical Nature of Metamorphism in Coal (Cont.)

its functional groups and was converted to fusain. The transformation of the organic mass of coal should be considered in association with the geological conditions of deposition of the bed. The most important geological factors, pressure and temperature, might appear at different times in the growth of the bed. The manner. This explains the existence of Devonian brown coals side by side with anthracites of Tertiary age. It also explains the presence, in almost any coal basin, of variously metamorphosed coals.

A. N. G.

Card 4/8

15-57-5-6647

The Chemical Nature of Metamorphism in Coal (Cont.)

Fat, wax,  
tar

Saponification, etc.

Albumin (products  
of decomposition  
of bacterial bodies)

Amino acids

Cellulose  
and other  
carbohydrates

Hydrolysis  
Carbo-  
hydrates  
Polyconden-  
sates

To Card 6/8

Card 5/8

To Card 7/8

The Chemical Nature of Metamorphism in Coal (Cont.)

15-57-5-6647

Lignin

Cuticle,  
spores,  
etc.

Humic  
acids

Card 6/8

To Card 8/8

The Chemical Nature of Metamorphism in Coal (Cont.)

15-57-5-6647

Vitrain  
and  
Vitrain-like  
substances

Varieties of Coal

Semibright  
(Vitrinised  
substances  
85-50%)

Semidull  
(Vitrinised  
substances  
50-35%)

Coals of humus  
origin

Diagram showing the formation of coal from plant material

Card 7/8

✓Principal directions in the coal utilization of the Kuznetsk Basin based on the genesis of its organic material and mineral admixtures. M. Yu. Grigor'ev and G. N. Podbel'skiy. *Vestn. Akad. Nauk S.S.R., Otdel. Tekh. Nauk* 1956, No. 10, 98-107.—A classification of Kuznetsk Basin coal enrichment is based on the yield and ash content of the concentrates and gang; sp. gr. is 1.5-1.8. The genesis of the mineral inclusions and the deposition conditions of the coal seams are discussed. The diagram permits detm. of the beneficiation characteristics of the coal, a control of high quality of the clean coal, and the efficiency of the coal-cleaning installation.

W. M. Steinberg

GRIGOR'YEV, M.Yu., kand.khim.nauk.

Genesis of Kuznetsk Basin humus coals. Nauch. trudy po vop. pererab.  
i kach ugl. no.4:3-47 '57. (MIRA 11:5)  
(Kuznetsk Basin--Coal geology)

GRIGOR'YEV, M.Yu., kand.khim.nauk; PODHEL'SKIY, G.N., kand.tekhn.nauk

Industrial and genetic classification of coal. Mauch. trudy po vop.  
pererab. i kach ugl. no.4:48-66 '57. (MIRA 11:5)  
(Coal--Classification)

~~GRIGOR'YEV, M.Yu., kand.khim.nauk; MOREVA, V.P., inzh.~~

Optical density of benzol extracts from coal as an added indice  
of its qualitative characteristic. Nauch. trudy po vop. pererab.  
1 knach ugl. no.4:67-74 '57. (MIRA 11:5)

(Coal--Testing)  
(Benzene--Optical properties)

GRIGOR'IEV, M.Yu. kand.khim.nauk; PODHIL'SKAYA, Ye.F., st. nauchnyy sotrudnik

Increasing the rate of agglomeration during flotation of  
petrographically inhomogeneous Kuznetsk Basin. Nauch. trudy po  
vop. pererab. i kaot. ugl. no.4:75-85 '57. (MIRA 11:5)  
(Kuznetsk Basin--Coal geology)  
(Karaganda Basin--Coal geology)  
(Flotation)

GRIGOR'YEV, M.Yu., kand.khim. nauk; BORODULIN, V.A., inzh.

Investigating the performance of USh-3 pneumatic separators  
and POM-1 jigs at the Kuznetsk Basin coal preparation plant.  
Nauch. trudy po vop. pererab. i kach ugl. no.4:86-98 '57.

(MIRA 11:5)

(Kuznetsk Basin--Coal preparation)  
(Separators (Machines))

GRIGOR'YEV, M.YU.

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13(2)

Abdullah, M. M., Institut Geophysical Laboratory.	Geological Survey of India, Corresponding Member, 1959; Academy of Sciences of India, Member, 1959; 350 p. Erstver off printed, 2,000 copies printed.
Sponsoring Agency: Yamagata Kenritsu Kagaku-sho Chikusho-sho.	Dr. T. I. Nakajima.
PURPOSE: This collection of articles is intended for geologists, geochemists, and other specialists interested in the genesis of oilfield mineral fields.	
CONTENTS: The collection of papers on the genesis of oilfield mineral fields has been prepared for presentation at the 2nd All-Japan Conference on Oilfield Minerals, the preparation of basic acids and salts from the decomposition of metamorphic rocks and minerals in connection with studies on the origin of hard coal and brown coal, and on the role of certain mineral elements in the origin of oil.	77
Contributors: The chemical composition of peat and the original source of coal are discussed and the origin of coal as a mixture of various organic substances is analyzed. The origin of brown coal or the "intermediate" brown coal is also discussed. The origin of oil is discussed in terms of the properties and characteristics of various oil and gas reservoirs. The relationship of various oil and gas reservoirs to the origin of oil is analyzed. Refinement concerning individual articles is given.	30
Editorial: Dr. T. Yamada of Seisankei Bunkaken Oilil Shokai.	
Frontis: Dr. S. On the Genetics of the Origin of Baltic Petroleum Oil.	
Contributors: Dr. H. and Dr. S. Yamada. XI. Genesis and Initial Stages of Coal Formation.	
SYNOPSIS: I. Introduction to the Formation of Brown Coal in the Northeastern Basin of the Soviet Union.	205
Chernov, Ya. N., Irrigation Carbonization of Brown Coal Found in the Northeastern Basin of the Eastern Part of the Central and Northern Basins.	205
Ingebohm, Yu. I., Petrographic and Chemical Characteristics of Some Types of Coal in the Volkhov and Bologodzhya Regions.	237
Kazakov, A. V., Conditions of Formation of slightly Carbonized Coal From Various Oils Found in the Central and Northern Parts of the Volkhov and Bologodzhya Regions.	238
Kazakov, A. V., Formation of Brown Coal From Bogs in the Volkhov and Bologodzhya Regions.	260
Kleibergen, A. J., Geological Conditions of Transformation of Coal Reserves in the Northeastern Part of the Russian Platform.	265
Levgor, Yu. N., Some Possible Conditions Under Which Coal Forms During Metamorphism of the Northern Basins.	280
Gubler, I. V., Organic Sulphur in Coal.	282
Koestochka, V. I., Some General Physical and Chemical Properties Governing the Coal-Forming Process.	287
Petrov, A. A., Characteristics of the Process of Transformation of Organic Matter Into Present Combustible Materials and the Formation of Charcoal Residues With the Principal Properties of Combustible Materials.	291
Sokolova, I. I., Genetic Processes of the Coal Reserves as Determined by Petrographic Pictures.	295
Sokolova, I. I., Chemical Nature of the Main Organic Masses of Hard and Brown Coal and Changes During Metamorphism.	309
Salaharau, T. A., Changes in the Structure and Properties of Mineral Acids During the Coal-Forming Process.	319
Titov, R. G., Role of Mineral Elements in the Coal-Forming Process.	324
Yamada, Y., Dr. A. I. Nakajima, and A. K. Tsvetkov. Genesis of Organic Compounds Contained in Coal.	324

APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681C

B07/68-59-1-16/26  
Author: Dvorin, S.S.  
Title: Conference on the Utilization of Resources of Coking Coals  
in the Kuzbass Basin (Sovremennyye po rasstishcheniyu  
snyay ugrojnyy bazy koksosov v Kuznetskom basseynye)  
Periodical: Lektsii i Rabochiye, 1959, Nr. 1, pp. 56 - 60 (USSR)

ABSTRACT: The conference took place in the town of Kemerovo on June 12 - 13, 1958 and was organised by the metallurgical and coking sections of the Technical-Economic Council of the USSR, the Kuzbass Regional Sovnarkhoz and by the coal group of the State Scientific-Technical Institute (GSSNI) (State Scientific-Technical Committee of the Council of Ministers of the USSR). Chief engineer of the "Kuzbassugol" M.I. Leshchenko, reported on the perspective of development of coking coals from the Kuzbass area during 1959-1965. The total output of coking coals from the Kuzbass Basin should increase from 21 million tons in 1958 to 42 million tons in 1965. In order to obtain the above output in 1959-1965, the following measures are planned: sinking of 26 new shafts of an output capacity of 37.6 million tons starting operation in 22 new shafts of a capacity of 24.1 million tons; reconstruction of 21 shafts of a capacity of 29.9 million tons; construction of 18 coal washeries of a capacity of 50 million tons/year, starting operation during 1959-1965; in 12 coal washeries of a capacity of 33.6 million tons/year. He also gave qualitative characteristics of coking coals from the Kuzbass (Gospkoks) (GSSNI).

S.A. Goryainy (Gospkoks) (GSSNI) read a paper "The Development of the Iron and Steel Industry in the East and Requirements of the Iron and Steel Works for Coking Coals during the Next 7 Years", in which he pointed out the possibility of utilising weakly caking coals which can solve all the difficulties in securing requirements of the industry. He considers that of all the new methods of coal preparation which can be effectively utilised in the near future, the preferential crucial in conjunction with stamp charging, is the only one. He considers by this method about 9 million tons of coke can be produced. I.V. Gelperin commented on the work carried out in the Tsentral'nyy Politekhnicheskiy Institut (Central Polytechnical Institute) on coking of bituminous coals and coal-tar pitch. He considered that an addition of finely crushed coke breeze to the fuel will result in an addition of 5% of coke breeze to the density of breeze up to 70%. With a 5% of coke breeze up to 60% of gas coal can be incorporated without any decrease in the coke quality. Coke should be crushed to pass screens with 500 mesh/cm<sup>2</sup>. In addition heat requirements for coking are decreased.

M.D. Grigor'yev (Kemerovo Nauknoye Institutiye) commented on the possibility of increasing coking coal resources from the Kuzbass. He says that an addition of 5% of coke breeze to the density of breeze up to 70% will result in an addition of 50-55% of thermally treated coals to a 15-20% addition of thermally treated gas coals can replace 15-20% of K and Zn coals.

I.I. Lutuney (Tul'skii Tekhnicheskii Universitet) in a paper "Utilization of the Resources of Coal" for gasification by the Institute of Gas and Heat Coking Coals in Bielsko considered that the methods of official method of utilising such coals is preferable to coking. The other methods considered are the production of petro-coke (bitumene) and synthesis of carbon pitch, briquetting and subsequent coalification.

SOV/68-59-1-16/26  
Conference on the Prospecting of Resources of Coking Coals in the  
Kuznetsky Basin

A.P. Dubrovkin (Scientific-Production) in a paper "Perspective of Coal Beneficiation in the Kuznetsky Basin for the Best Years" reported that the development of coal beneficiation lags behind coal mining. Ash content of coals sent for coking increased by 0.9% in comparison with 1953, and the ash content of coal sent to coking decreased from 15% in 1953 to 9.1% in 1971. Correspondingly, the yield of coke decreased from 91.2% to 79%. In view of increasing ash content in coals, the field concentration of 1965 will decrease to 78%. A brief outline of planned construction of coal washeries is given (15 new washeries of total output of 23.4 million t/year). In 1966, 45 washeries,

with a total output of 5.1 million t/year, should be in operation. Further development in the Kuznetsky Basin area is regions which contain mainly high ash and difficult-to-benefit coal. In the existing洗水池 there is also some increase in the ash and moisture content is expected. Therefore, in new coal beneficiation plants, only wet treatment methods without preliminary separation into ash fractions should be considered.

K.M. Koliadny (Kubanskugrobazaltobuks) reported on methods of increasing the efficiency of coal beneficiation processes in existing coal beneficiating works in the Kuznetsky Basin. Of 28 operating washeries, 21 are operating with the pneumatic method, by a combination of pneumatic and wet process and 3 by wet method. During the last 5 years, the ash content of coals has increased by 2.3%, and that of concentrates by 0.4%. In order to decrease the ash content in concentrates, secondary wet treatment of pneumatically cleaned coals was introduced in some 21 plants. This decreased the ash content by 0.7% and increased the yield of

1.5-2.5%. A cascade scheme of beneficiation was developed on pneumatically operating plants consisting of the fact that two individual units operating at 6-10 m<sup>3</sup>/sec. are treated in pneumatic separators US-3 but G-5 in fractions. For logistic just-coating coal, a symbiotic bedding layer from heavy rubberized instead of talcum which was found to be very efficient.

A.A. Lekanov (TUMI) in a paper "A Decrease in the Consumption of Coals X and Y on the Kuznetsky Metallurgical Combine by Incorporating into Blends Gas Coals Pointed out that coke oven lignite, Ural and Siberian are designed for a standardized ash condition calculated for a coking period of 1-1.5 hours, limited to 17 hours. At temperatures in the coker furnace 320-340°C. With increasing proportion of high-ash coals, the quality of coke deteriorates. An increase in the coker period is impossible due to a shortage of coking capacity. Experimental work on coal briquetting trials is possible to decrease the proportion of K coals but for this purpose, the existing technology of coal briquetting and coking conditions should be modified. For this purpose, the development of an appropriate plant is necessary (no details).

ASSOCIATION: Sovnauk SSSR

Card #/b

Card #/b

GRIGOR'YEV, M. Ya., dotsent; POPOV, V.S., dotsent

Characteristics and mechanics of coal and gas outbursts in coal  
mines. Izv. vys. ucheb. zav.; gor. zhur. no.3:44-52 '60.  
(MIRA 14:5)

1. Kemerovskiy gornyy institut.  
(Coal mines and mining)

GRIGOR'YEV, N.; MEDVEDIK, S.

Load deflection during gantry crane operations. Rech. transp. 20  
no. 5:16-17 My '61. (MIRA 14:5)  
(Cranes, derricks, etc.) (Loading and unloading)

L 2C723-65 EWT(d) Po-4/Pq-4/Pg-4/Pk-4/P1-4 SSD/AFML/ASD(a)-5/AFM(df)/AFETR/  
AFIC(a)/AFCC(b)/APOC(a)/BSD(dp)/IJP(c) BC  
ESSION NR: AP4049504 S/0209/64/000/011/0064/0070

AUTHOR: Grigor'yev, N. (Colonel, Engineer); Ryabkov, V. (Lieutenant Colonel, B  
Engineer)

TITLE: Automated control systems

SOURCE: Aviatsiya i kosmonavtika, no. 11, 1964, 64-70

TOPIC TAGS: aircraft control system, automatic pilot, aircraft instrumentation,  
aircraft testing, pilot training

ABSTRACT: The article points out that the growth of new weapons has necessitated  
the development of new control mechanisms for controlling them. The comment is  
made that in aviation, for example, more money is spent on controls than on what  
they are controlling. Also, the cost of ground maintenance has been increased  
several times. The article names various types of systems used for control;  
intermittent, built-in systems, complex steering equipment (guidance), power sys-  
tems, weapons and flight apparatus as a whole, as well as special automated de-  
vices for checking various parts of flight systems. Some systems, for example,  
show the efficiency levels of the craft's various components while others check  
on their synchronization. The authors describe the control pulses used in alt-  
craft control and observe that built-in systems do little to speed up maintenance  
Coro ,/2

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ACCESSION NR: AP4049504

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testing. According to the authors, two basic systems are in use -- SAK and PAK. SAK is a mobile system consisting of three units, or carts, one of which contains control equipment, including computer programs with a built-in self-correction system, as well as strain detectors, fidelity testers, and display and recording devices. The other two units are described as containing signal generators, switching systems, and signal transformers, each of which is discussed. PAK is a system to which component parts may be linked. Signals are generated to permit calibration of different units which can then serve to check the various components connected to the equipment and controlled from the panel. SAK is considered to be a superior system since PAK only permits the check of a limited number of components, and is therefore, not universal. SAK, in contrast, also contains radar equipment for strategic aircraft. It measures pulse, power, sensitivity of reception and simulates ground targets for various distances and rates of speed.

Orig. art. has: 6 block diagrams and 2 graphs.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: NG, AC

NO REF SOV: 000

OTHER: 000

Card: 2/2

1. ORIGCR'YEV, N.; IGNAT'EV, P.
  2. USSR (600)
  4. Wheat Trade
  7. State of the wheat market in capitalist countries. Vnesh. torg. 23, No. 3, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April 1953. Unclassified.

GRIGOR'YEV, N., inshener.

Improve records kept of repair jobs. Muk.-elev.prom. 20 no.3:  
12 Mr '54.  
(MLRA 7:7)

1. Poltavskaya oblastnaya kontora Zagotzerno.  
(Grain elevators--Repairing)

GRIGOR'YEV, N., inzhener.

Defects of the standard plan for the warehouse of 3,200 ton capacity. Muk.-elev.prom. 20 no.9:29 S '54. (MLRA 7:12)

1. Poltavskaya kontora Zagotserno.  
(Granaries)

MIKHAYLOVA, L., inzhener; GRIGOR'YEV, N., inzhener.

Suspended sieve for removing shelled grains from moving ear corn.  
Muk.-elev.prom. 23 no.3:25 Mr '57. (MLRA 1015)

1. Odesskaya oblastnaya kontora Ulrglavzerno.  
(Corn-handling machinery)

MIKHAYLOVA, L., inzhener; GRIGOR'YEV, N., inzhener.

Mobile drier for ear corn. Muk.-elev. prom. 23 no.6:23 Je '57.  
(MLRA 10:9)

1. Odesskoye oblastnoye upravleniye khleboproduktov.  
(Corn (Maize)--Drying)

GRIGOR'YEV, N., inzh.; MIKHAYLOVA, L., inzh.

Equipment for the mechanized handling of ear corn. Muk-elev.  
prom. 24 no.6:26 Je '58. (MIRA 11:?)

1. Odesskoye oblastnoye upravleniye khleboproduktov.  
(Corn (Maize))

GRIGOR'YEV, N.; KRYLOV, V.; RAYSKIY, A., mekhanik

Preventive maintenance of equipment. Muk.-elev.prom. 25  
no.9:27 S '59. (MIRA 12:12)

1. Odesskoye oblastnoye upravleniye khleboproduktov (for  
Grigor'yev, Krylov). 2. TSekh Kuybyshevskogo mel'kombina (for  
Rayskiy).  
(Grain-handling machinery--Maintenance and repair)

GRIGOR'YEV, N., inzh.

One more corn processing plant has been put into operation. Muk.-  
elev.prom. 26 no.1:28 Ja '60. (MIRA 13:6)  
(Odessa--Grain elevators) (Corn (Maize))

GRIGOR'YEV, N.

Salubrity of the Yevpatoriya health resort. Okhr. truda i sots.  
strakh. 3 no.7:14-16 Jl '60. (MIREA 13:8)

1. Nachal'nik Yevpatoriyskogo kurortnogo upravleniya.  
(Yevpatoriya--Sanatoriums)

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CIA-RDP86-00513R00051681

GRIGOR'YEV, N. (Alma-Ata)

Fine beginning. Zdorov'e 7 no. 5:6 My '61.  
(CALLISTHENICS)

(MIRA 14:4)

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CIA-RDP86-00513R00051681C

GRIGOR'YEV, N.

Frontier veteran. Voen. znan. 39 no.2:36 F '63. (MIRA 16:3)  
(Smolin, Aleksandr)

GRIGOR'YEV, N.A.

Chishki (Chanty-Argun) mineral water deposit. Sov. geol. ? no.10:  
136-141 O '64. (MIRA 17:11)

1. Severo-Kavkazskoye otdeleniye Laboratori gidrogeologicheskikh  
problem im. F.P. Savarenetskogo.

FRUMKIN, A. N.; POLYAKOVSKAYA, N. S.; GRIGOR'YEV, K.; PARKHAKAYA, I. A.

"Electrocapillary phenomena on gallium."

report presented at 15th Mtg, Intl Comm of Electrochemical Thermodynamics & Kinetics, London & Cambridge, UK, 21-26 Sep 1964.

Inst of Electrochemistry, AS USSR.

GRIGOR'YEV, N., inzh.-polkovnik; RYABKOV, V., inzh.-podpolkovnik

Automatic control systems. Av. i kosm. 47 no.11:64-70 N '64.  
(MIRA 17:11)

GRIGOR'YEV, N.A.

Glucine, a new mineral of beryllium. Zap. Vses. min. ob-va 92  
no.6:691-696 '63. (MIRA 18:3)

1. Institut geologii Ural'skogo filiala AN SSSR, Sverdlovsk.

GRIGOR'YEV, N.A.

Todorokite from the hydrothermal-pneumatolytic zone in the  
Urals. Trudy Inst. geol. UFAN SSSR no.70:197-203 '65.  
(MIRA 18:12)

POKROVSKIY, P.V.; GRIGOR'YEV, N.A.; POTASHKO, K.A.

Secondary phosphates of beryllium and their distribution in the weathering surface of mica-fluorite greisens. Trudy Inst. geol. UFAN SSSR no.70:205-209 '65. (MIRA 18:12)

POKROVSKIY, P.V.; GRIGOR'YEV, N.A.

Mechanism of the formation of rhythmic-banded structures in  
the process of diffusion metasomatism. Trudy Inst. geol.  
UFAN SSSR no.70:211-219 '65. (MIRA 18:12)

L 16443-65 ENT(m)/EWP(t)/EWP(b) IJP(c) JD/JG  
ACCESSION NR: AF4043555 S/0020/64/157/004/0957/0940

AUTHORS: Frumkin, A.N.; Academician); Grigor'yev, N.B.; Bagotskaya, I.A.

TITLE: Investigation of the structure of the electric double layer  
on gallium by the method of measuring differential capacity

SOURCE: AN SSSR. Doklady\*, v. 157, no. 4, 1964, 957-960

TOPIC TAGS: electric double layer, gallium, differential capacity,  
gallium dissolution, charge density, water adsorption, dropping  
gallium electrode

ABSTRACT: The differential capacity on a dropping gallium electrode  
was measured at 30°C in various  $\text{Na}_2\text{SO}_4$ ,  $\text{NaClO}_4$ ,  $\text{LiCl}$ ,  $\text{NaCl}$ ,  $\text{KCl}$ ,  $\text{CsCl}$ ,  
KI and KCNS solutions. 1N neutral salt solutions were used for  
measurements at potentials from -1.9 to -1.2 volts. For measure-  
ments from -1.3 to -1.1 volts the solutions were acidified to 0.01N,  
and for measurements from -1.15 volts to positive voltages they were  
acidified to 0.1N; except for KI and KCNS when HCl was used, the acid  
anions were the same as those of the salt; the total electrolyte  
concentrations were 1N. The electrode was prepared according to the  
description by A.N. Frumkin and A.V. Gorodetskaya (Zs. Phys. Chem.,

Card 1/5

L 16443-65

ACCESSION NR: AP4043555

136, 215 (1928)). At negative potentials corresponding to areas of cation adsorption, the differential capacity C increased in going from  $\text{Li}^+$  to  $\text{Cs}^+$ . In solutions containing the same cations but different anions the differential capacity curves almost coincided (fig. 1); C increased sharply at potentials corresponding to the start of anion adsorption in the following order  $\text{CH}_3\text{S}^- > \text{I}^- > \text{Br}^- > \text{Cl}^- > \text{SO}_4^{2-} > \text{ClO}_4^-$ . The capacity was independent of frequency (318 cycles to 50 kilocycles/sec.) and was assumed to be the capacity of the electric double layer. The absence of dispersion of C indicated the process of Ga dissolution, which takes place at even more positive potentials, is irreversible. The relationship between the charge density  $\epsilon$  and the potential  $\Psi$  for Ga and Hg in 1N solutions was compared (fig. 2). In the vicinity of the zero charge in 1N  $\text{Na}_2\text{SO}_4$   $C_{\text{Ga}} = 135$  and  $C_{\text{Hg}} = 29.5$  microfarad/cm<sup>2</sup>. Further from the zero charge the rate increase in  $\epsilon$  for Ga was reduced; it approached  $\epsilon$  for Hg. Thus an electric double layer of the same state as on Hg was formed on Ga, only at a more positive potential with respect to the

Card 2/5

L 16443-65  
ACCESSION NR: AP4043555

zero charge point. The increase in C on Ga at less negative values was attributed not to the adsorption of O or OH on the Ga surface, nor to an increase of Ga ions in the boundary layers, but to the adsorption of water on Ga, the water dipole being oriented with its negative end toward the Ga proportionally to the shift in Ga potential. "I thank B.B. Damaskin for participation in evaluating the obtained results." "Gallium was purified by the Institute of rare metals method. We take the opportunity to thank AN SSSR assoc. member N.P. Saggin for assistance in obtaining it." Orig. art. has: 3 figures.

ASSOCIATION: None

ENCL: 02

SUBMITTED: 31Mar04

OTHER: 005

SUB CODE: GC

NR REF SOV: 000

Card 3/5

L 16443-65  
ACCESSION NR: AP4013555

ENCL: 01



Figure 1

Curves of the differential capacity on gallium in 1N solutions:  
1--NaClO<sub>4</sub>, 2--Na<sub>2</sub>SO<sub>4</sub>, 3--KCl, 4--KBr, 5--KI, 6--KCNS. Fig. 1a:  
dotted line --D. G. Granaue's data (Tr. IV. sovoshch. po elektro-  
khimii, M., 1959, str. 27) for 0.1M KCl; solid line--our data.

Card: 4/5

L 16443-65  
ACCESSION NR: AF4043555

ENCL: 02

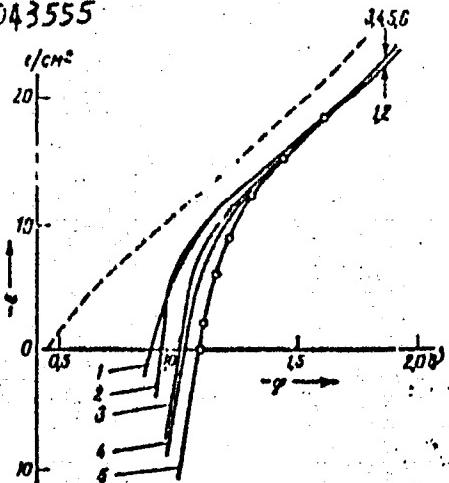


Figure 2

Relationship between charge density and potential on gallium in 1N solutions; 1--NaClO<sub>4</sub>, 2--Na<sub>2</sub>SO<sub>4</sub>, 3--KCl, 4--KBr, 5--KI, points on curve 5--KCNS. Dotted line--2, curve for mercury on 1N Na<sub>2</sub>SO<sub>4</sub>.

Card: 5/5

L 25625-65 EPF(n)-2/EPA(s)-2/EWT(m)/EPA(bb)-2/EWP(b)/EWA(d)/EWP(t) Pt-10/  
Pu-4 IJP(c) WW/JD/JG/WB S/0020/64/157/006/1455/1458 48  
ACCESSION NR: AP4044890 37  
B

AUTHOR: Frumkin, A. N. (Academician); Polyanovskaya, N. S.; Grigor'yev, N. B.

TITLE: Electrocapillary curves of liquid gallium 27

SOURCE: AN SSSR. Doklady\*, v. 157, no. 6, 1964, 1455-1458

TOPIC TAGS: gallium, electrocapillary curve, gallium purity, electrocapillary effect, capacitance, purity control

ABSTRACT: The electrocapillary effects and adsorption of surface active materials on pure gallium and the effect of the degree of purity on the electrocapillary properties of Ga were studied. The interfacial tension ( $\sigma$ ) values obtained in various HCl-containing solutions in the potential interval from -0.8 to -1.8 v ( $\phi$ ) indicated the absence of effects of hydroxyl and hydrogen adsorption at the anode and cathode ends of each curve. The experimental electrocapillary curves compared with the  $\sigma$ - $\phi$  curves calculated by double integration from differential capacitance (C)- $\phi$  data. From the zero charge potentials ( $\phi_0$ ) and  $\sigma_{\max}$  values of Ga in different solutions it was found that the surface activity of  $\text{SO}_4^{2-}$  (or  $\text{HSO}_4^-$ )

Card 1/2

L 25625-65  
ACCESSION NR: AP4044890

3

$\text{Cl}^-$ ,  $\text{Br}^-$ ,  $\text{I}^-$  decreased in this same order as in Hg. The surface activity of  $\text{SO}_4^{2-}$  was greater than, and of  $\text{Cl}^-$  and  $\text{Br}^-$  was similar to that on Hg;  $\text{ClO}_4^-$  had no effect. The high capacitance of the electric double layer of Ga at not too negative potentials and the asymmetry of the electrocapillary curves was believed to be determined by the chemosorption of water molecules, whose orientation changed with polarization of the metal. The purity of Ga had a strong effect on the electrocapillary curves;  $\sigma_{\max}$  was 41 dyne/cm higher for 99.9998% pure Ga than for the 99.996%, and the shifted to more negative values. The possibility of controlling Ga purity by electrocapillary data was suggested. "We acknowledge B. B. Damaskin's participation in evaluating the results." "We thank AN SSSR associated member N. S. Sazhin for assistance in obtaining samples of this gallium." Orig. art. has: 3 figures and 1 table

ASSOCIATION: Moskovskiy gosudarvennyy universitet im. M. V. Lomonosova  
(Moscow State University)  
SUBMITTED: 12Mar64 ENCL: 00 SUB CODE: GC, EM  
NR REF SOV: 005 OTHER: 006

Card 2/2

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NAME: Ministerstvo svazya. Tomskobol'soye upravleniye

Berzg. nauchno-issledovatel'nyy organizatsii po organizatsii pochtovoy svazi; informatsionno-tekhnicheskaya doktrina (dev'at' let' razvitiya v pochtovom i telekomunicatsionnom oborudovanii). Collection of Informational Articles

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Dopolnitel'nyy sponzoring agentstva: MIA. Ministerstvo svazya.

Tomskobol'soye upravleniye. Tomskobol'soye upravleniye

Scrp. Ns.: A. N. Voznits. Ed.: R.A. Karvalova; Tech. Rez.:

I. G. Baranov.

PRIRODA: This book is intended for post office workers.

OPISANIE: This collection of articles discusses efforts of the Central Scientific Research Institute of Communications to upgrade and mechanize postal service processes in postal service establishments. It describes the organization of postal service, methods to determine the efficiency of mechanized postal service, some articles discuss future development of the postal service. No personnel are mentioned. There are

Scrp. Ns.: B. D. Overall: Mechanization of Postal Operations 80

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